

## ABSTRACT OF THE DISCLOSURE

5 A biodegradable polymer ("biopolymer) filled with more than 5 wt%, and up to  
about 35 wt% of an inert particulate filler so as to have a WVTR in the range from at  
least twice to about 50 times greater than that of low density PE having a melt flow  
index of 1 g/10 min, each of the same thickness, is more effective to protect metal parts  
against corrosion than "neat" or unfilled biopolymer. Moreover a cross-section of the  
filled biopolymer 0.025 mm thick, is substantially transparent if the neat biopolymer is  
10 transparent. The improvement in corrosion protection is obtained without decreasing  
the tensile strength of the film below a critical tensile strength of 2000 psi in either the  
machine or transverse direction, preferably in both directions, due to the uniformity of  
the dispersed particles in the filled biopolymer. Such uniformity is obtained because  
the ingredients in the biopolymer are essentially anhydrous.

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